

Name: _____

Date: _____

Pd: _____

Systems Classwork

1. Emilia and Perrin are selling popcorn and cookies to raise money. They are charging \$5 per can of popcorn and \$8 per box of cookies. They sell a total of 240 cans and boxes together and earn a total of \$1614. How many cans of popcorn did Emilia and Perrin sell? How many boxes of cookies did they sell?

a. Define variables that make sense for the situation.

b. Write AND SOLVE a system of linear equations. Show all work.

c. Check your answers via SUBSTITUTION and REALITY.

d. Write your final answers with LABELS.

2. Emma spent one hundred thirty-one dollars on shirts. Fancy shirts cost twenty-eight dollars and plain shirts cost fifteen dollars. If she bought a total of seven shirts, how many fancy shirts did she buy? How many plain shirts?

a. Define variables that make sense for the situation.

b. Write AND SOLVE a system of linear equations. Show all work.

c. Check your answers via SUBSTITUTION and REALITY.

d. Write your final answers with LABELS.

3. At Michael's Printing Company, LLC there are two kinds of printing presses: Model A which can print 70 books per day and Model B which can print 55 books per day. The company owns 14 total printing presses and this allows them to print 905 books per day. How many of each type of press do they have?

a. Define variables that make sense for the situation.

b. Write AND SOLVE a system of linear equations. Show all work.

c. Check your answers via SUBSTITUTION and REALITY.

d. Write your final answers with LABELS.

4. Christian and Ryann are starting a miniature candy plant. Their expenses are \$770 to build the miniature plant and \$0.35 to make each piece of candy. They sell each piece of candy for \$0.55. After how many pieces of candy will they break even? What will their expenses/income equal at this point?

a. Define variables that make sense for the situation.

b. Write AND SOLVE a system of linear equations. Show all work.

c. Check your answers via SUBSTITUTION and REALITY.

d. Write your final answers with LABELS.

